

In re Patent Application of:

LEAMING

Serial No. 10/828,747

Filed: April 21, 2004

In the Claims:

This listing of claims replaces all prior versions and listing of claims in the application.

1. (Previously presented) An integrated circuit for a smart card comprising:

a transceiver; and

a processor for communicating with a host device via said transceiver and performing a plurality of smart card applications, said processor for

cooperating with the host device to perform an enumeration based upon at least one default descriptor,

generating a look-up table for allocating data to respective smart card applications based upon the enumeration, and

detecting a system event and, responsive to the system event, cooperating with the host device to perform a new enumeration based upon at least one alternate descriptor and generating a new look-up table based thereon.

2. (Original) The integrated circuit of Claim 1 wherein each application has at least one endpoint associated therewith, and wherein the look-up tables are for allocating data to respective application endpoints.

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3. (Original) The integrated circuit of Claim 1 wherein the system event comprises a system utilization metric exceeding a threshold.

4. (Original) The integrated circuit of Claim 1 wherein the system event comprises the occurrence of attempted unauthorized communications.

5. (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one device descriptor.

6. (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one configuration descriptor.

7. (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one interface descriptor.

8. (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one endpoint descriptor.

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9. (Original) The integrated circuit of Claim 1 further comprising at least one memory connected to said processor for storing the look-up tables.

10. (Original) The integrated circuit of Claim 1 wherein said transceiver comprises a universal serial bus (USB) transceiver, and wherein said processor operates in a USB mode.

11. (Original) A smart card comprising:
a smart card body; and
an integrated circuit carried by said smart card body
and comprising

a transceiver, and

a processor for communicating with a host device via said transceiver and performing a plurality of smart card applications, said processor for

cooperating with the host device to perform an enumeration based upon at least one default descriptor,

generating a look-up table for allocating data to respective smart card applications based upon the enumeration, and

detecting a system event and, responsive to the system event, cooperating with the host device to perform a new enumeration

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based upon at least one alternate descriptor
and generating a new look-up table based
thereon.

12. (Original) The smart card of Claim 11 wherein each application has at least one endpoint associated therewith, and wherein the look-up tables are for allocating data to respective application endpoints.

13. (Original) The smart card of Claim 11 wherein the system event comprises a system utilization metric exceeding a threshold.

14. (Original) The smart card of Claim 11 wherein the system event comprises the occurrence of attempted unauthorized communications.

15. (Original) The smart card of Claim 11 wherein the at least one alternate descriptor comprises at least one device descriptor.

16. (Original) The smart card of Claim 11 wherein the at least one alternate descriptor comprises at least one configuration descriptor.

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17. (Original) The smart card of Claim 11 wherein the at least one alternate descriptor comprises at least one interface descriptor.

18. (Original) The smart card of Claim 11 wherein the at least one alternate descriptor comprises at least one endpoint descriptor.

19. (Original) The smart card of Claim 11 wherein said integrated circuit further comprises at least one memory connected to said processor for storing the look-up tables.

20. (Original) The smart card of Claim 11 wherein said transceiver comprises a universal serial bus (USB) transceiver, and wherein said processor operates in a USB mode.

21. (Original) A smart card system comprising:
a host device;
a smart card adapter connected to said host device; and
a smart card to be read by said smart card adapter and comprising a smart card body and an integrated circuit carried by said smart card body, said integrated circuit comprising
a transceiver, and
a processor for communicating with a host device via said transceiver and performing a plurality of smart card applications, said processor for

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cooperating with the host device to perform an enumeration based upon at least one default descriptor,

generating a look-up table for allocating data to respective smart card applications based upon the enumeration, and

detecting a system event and, responsive to the system event, cooperating with the host device to perform a new enumeration based upon at least one alternate descriptor and generating a new look-up table based thereon.

22. (Original) The smart card system of Claim 21 wherein each application has at least one endpoint associated therewith, and wherein the look-up tables are for allocating data to respective application endpoints.

23. (Original) The smart card system of Claim 21 wherein the system event comprises a system utilization metric exceeding a threshold.

24. (Original) The smart card system of Claim 21 wherein the system event comprises the occurrence of attempted unauthorized communications.

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25. (Original) The smart card system of Claim 21 wherein the at least one alternate descriptor comprises at least one device descriptor.

26. (Original) The smart card system of Claim 21 wherein the at least one alternate descriptor comprises at least one configuration descriptor.

27. (Original) The smart card system of Claim 21 wherein the at least one alternate descriptor comprises at least one interface descriptor.

28. (Original) The smart card system of Claim 21 wherein the at least one alternate descriptor comprises at least one endpoint descriptor.

29. (Original) The smart card system of Claim 21 wherein said integrated circuit further comprises at least one memory connected to said processor for storing the look-up tables.

30. (Original) The smart card system of Claim 21 wherein said transceiver comprises a universal serial bus (USB) transceiver, and wherein said processor operates in a USB mode.

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31. (Original) A method for operating a smart card for performing a plurality of smart card applications, the method comprising:

performing an enumeration of the smart card in cooperation with a host device based upon at least one default descriptor;

generating a look-up table for allocating data to respective smart card applications based upon the enumeration; and

detecting a system event and, responsive to the system event, performing a new enumeration in cooperation with the host device based upon at least one alternate descriptor and generating a new look-up table based thereon.

32. (Original) The method of Claim 31 wherein each application has at least one endpoint associated therewith, and wherein the look-up tables are for allocating data to respective application endpoints.

33. (Original) The method of Claim 31 wherein the system event comprises a system utilization metric exceeding a threshold.

34. (Original) The method of Claim 31 wherein the system event comprises the occurrence of attempted unauthorized communications.

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35. (Original) The method of Claim 31 wherein the at least one alternate descriptor comprises at least one device descriptor.

36. (Original) The method of Claim 31 wherein the at least one alternate descriptor comprises at least one configuration descriptor.

37. (Original) The method of Claim 31 wherein the at least one alternate descriptor comprises at least one interface descriptor.

38. (Original) The method of Claim 31 wherein the at least one alternate descriptor comprises at least one endpoint descriptor.